PTO-1390 (Rev. 07-2005)
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TRANSMITTAL LETTER TO THE UNITED STATES	ATTORNEY'S DOCKET NUMBER						
DESIGNATED/ELECTED OFFICE (DO/EO/US)	HO-P02936US1 U.S. APPUCATION COST (Appurps @ 37 CFR 1.5)						
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371	10/50/4/0						
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED						
PCT/SE2005/000114 31 January 2005 29 January 2004 TITLE OF INVENTION							
FLOW PATHS COMPRISING ONE OR TWO POROUS BEDS							
APPLICANT(S) FOR DO/EO/US Johan Engström et al.							
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:							
This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.							
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.							
This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.							
4. The US has been elected (Article 31).							
5. x A copy of the International Application as filed (35 U.S.C. 371 (c)(2))							
a. x is attached hereto (required only if not communicated by the International Bureau).							
b. has been communicated by the International Bureau.							
c. is not required, as the application was filed in the United States Receiving Office (RO/US).							
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).							
a. is attached hereto.							
b. has been previously submitted under 35 U.S.C. 154(d)(4).							
7. Amendments to the claims of the International Application under PCT Arti	icle 19 (35 U.S.C. 371(c)(3))						
a are attached hereto (required only if not communicated by the International Bureau).							
b. have been communicated by the International Bureau.							
c. have not been made; however, the time limit for making such amendments has NOT expired.							
d. have not been made and will not be made.							
8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).							
Items 11 to 20 below concern document(s) or information included:							
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.							
2. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.							
3. x A preliminary amendment.							
4. x An Application Data Sheet under 37 CFR 1.76.							
5. A substitute specification.							
16. A power of attorney and/or change of address letter.							
7. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.							
A second copy of the published International Application under 35 U.S.C. 154(d)(4).							
19. A second copy of the English language translation of the international a	application under 35 U.S.C. 154(d)(4).						

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U.S. APPLICATION	15874	28	INTERNATIONAL APPLICATION NO. PCT/SE2005/000114			ATTORNEY'S DOCKET NUMBER HO-P02936US1		
20. x Other items or information: Specification (37 pages), Drawings 5 Figures (4 pages), Copy of PCT Publication, Return Receipt Postcard								
Return Receipt Postcaru								
The following fees have been submitted				CALCU	S PTO USEONLY			
21. x Basic national fee (37 CFR 1.492(a))					\$\$	300.0	0	
22. x Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)						\$ 200.00		
23. x Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)					\$ 500.00			
٠	TOTAL OF 21, 2					\$ 1	,000.0	0
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.				rogram listing in an				
Total Sheets	Extra Sheets		of each additional 50 or fraction RATE (round up to a whole number)					
37 - 100 =	/50 =				x \$250.00	\$		
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					\$ 130.00			
CLAIMS		MBER FILED	NUMBER EXTRA	NUMBER EXTRA RATE				
Total clain		17 - 20 = 3 - 3 =		×		0.00		
Independent of				× +		0.00		
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + TOTAL OF ABOVE CALCULATIONS =					E CALCULATIONS =	\$ 1,130.00		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.								
SUBTOTAL :				SUBTOTAL =	\$ 1,130.00		0	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				s from the earliest	\$			
TOTAL NATIONAL FEE				\$ 1,130.00				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$				
					\$			
TOTAL FEES ENCLOSED =			· · · · · · · · · · · · · · · · · · ·		1,130.00			
						Amount refunded		\$
				Amount to be charged \$		\$		

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. a. X A check in the amount of \$ 1,130.00 to cover the above fees is enclosed. Please charge my Deposit Account No. 06-2375 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit 06-2375 . A duplicate copy of this sheet is enclosed. Account No. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card Information should not be included on this form. Provide credit card information and authorization on PTO-2038 NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed an granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: Melissa W. Acosta, Ph.D. NAME CUSTOMER NUMBER: 26271 45,872 REGISTRATION NUMBER

10/587428 IAP11 Rec'd PCT/PTO 26 JUL 2006

Application No. (if known): Not Yet Assigned Attorney Docket No.: HO-P02936US1

Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV678185065US in an envelope addressed to:

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Note

Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Transmittal Letter to the United States Designated-Elected Office (3

pages)

Application Data Sheet (3 pages)

Preliminary Amendment Specification (37 pages) Drawings 5 Figures (4 pages) Copy of PCT Publication

Check in the amount of \$1,130.00

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